

★HOND

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Method of starting catalytic combustion machine for gas turbine engine - by preheating compressed air and catalyst through separate preheating devices prior to combustion at catalytic combustion part

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The method involves the fuel mixture part (18) from which fuel supplied through a nozzle valve assembly (19) and compressed air supplied by a compressor (4) is mixed. A catalytic combustion part (23) burns the fuel and compressed air mixture through a catalyst reaction.

Before the combustion process, the compressed air is preheated through a compressed air preheating device (17) simultaneous with the preheating of the catalyst (24,25) through a catalyst preheating device (26,27). The preheating process terminates only when the temperature of the catalyst becomes more than the temperature entering air.

ADVANTAGE - Achieves steady state combustion and temp. distribution more readily. (10pp Dwg.No.1/7)

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